Do Now:

Given the function $f(x)\begin{cases} 2x+6, & x \le -4 \\ -4, & x > -4 \end{cases}$

Evaluate

1) f(-2) = -4

2) f(-6) = 2(-6)+6 f(10) = -4

f(-6) = -12+6

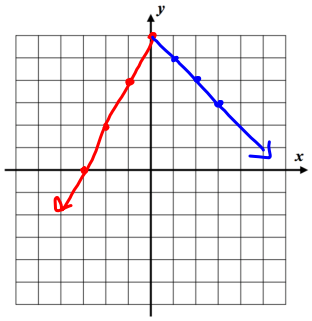
f(-6) = -6

Jan 7-7:44 AM

1)

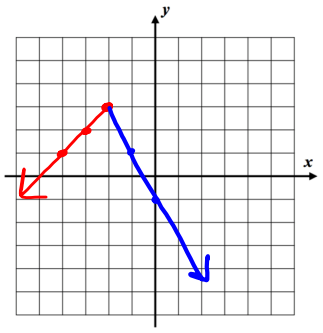
a. f(4) = 2 f(-3) = 0

x	y
-3	0
-2	2
-1	4
0	6
1	5
2	4
3	3



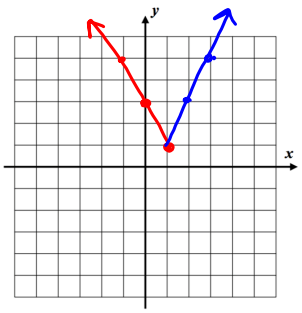
2)

x	Y
-5	0
-4	1
-3	2
-2	3
-1	1
0	-1
1	-3



3)

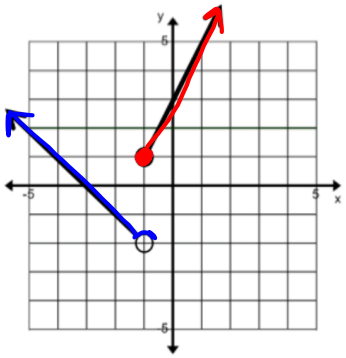
x	Y
-2	7
-1	5
0	3
1	1
2	3
3	5
4	7



Dec 15-6:58 AM

Write the equation for each function whose graph is shown.

4)



$m = 2$

$b = 3$

$y = 2x + 3$

Restricted Domain

$x \geq -1$

$m = -1$

$b = -3$

$y = -x - 3$

Domain

$x < -1$

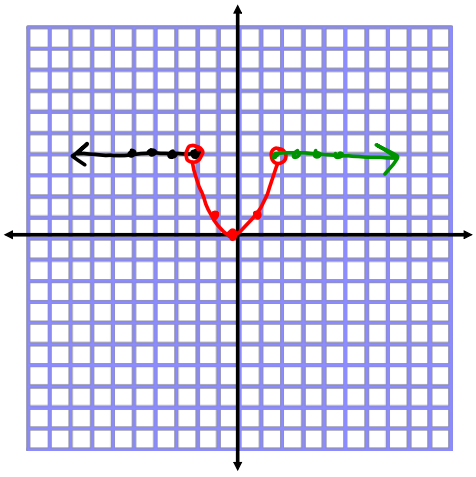
$$f(x) = \begin{cases} 2x+3 \text{ if } x \geq -1 \\ -x-3 \text{ if } x < -1 \end{cases}$$

Dec 12-7:04 PM

10. $f(x) = \begin{cases} 4, & x \leq -2 \\ x^2, & -2 < x < 2 \\ 4, & x \geq 2 \end{cases}$

x	f(x)=4 $x \leq -2$	(x,y)
-2		4
-3		4
-4		4
-5		4

x	f(x)=x^2 $-2 < x < 2$	(x,y)
-2		4
-1		1
0		0
1		1
2		4



x	f(x)=4	(x,y)
2		4
3		4
4		4
5		4

Jan 7-9:26 AM